

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings of claims in this application.

1. (Currently Amended) An extra capacity radio base station for a wireless communication system, comprising:

a first radio base station providing wireless communication to at least one sector of the wireless communication system, the first radio base station coupled to a first group of n radios, where n is an integer, the first group of n radios transmitting and receiving frequencies in at least one range of 806-960 MHz, 1710-1855 MHz, 2500-2690 MHz, and 2.4 GHz-2.5 GHz; and

a second radio base station coupled to the first radio base station, the second radio base station also providing wireless communication to the at least one sector, the second radio base station coupled to a second group of n radios, the second group of n radios also transmitting and receiving frequencies in at least one range of 806-960 MHz, 1710-1855 MHz, 2500-2690 MHz, and 2.4 GHz-2.5 GHz,

wherein the first radio base station coupled to the second radio base station creates the extra capacity radio base station, the extra capacity radio base station utilizing an extra control radio for voice or data communication to create $2n+1$ radios available for voice ~~and~~ or data communication and one control radio for control signals to the at least one sector of the wireless communication system.

2. (Currently Amended) A 3×15 radio base station for a wireless communication system, comprising:

a first 3×7 radio base station providing wireless communication to the three sectors of the wireless communication system, the first 3×7 radio base station coupled to a first group of seven radios per each sector of the three sectors; and

a second 3×7 radio base station coupled to the 3×7 radio base station, the second 3×7 radio base station also providing wireless communication to the three sectors, the second 3×7 radio base station coupled to a second group of seven radios per each sector of the three sectors,

wherein the first 3x7 radio base station coupled to the second 3x7 radio base station creates the 3x15 radio base station utilizing 14 radios and an extra control radio for voice or data communication and one control radio for control signals, the 3x15 radio base station providing the three sectors with fifteen radios per each sector.

3. (Original) A 3x15 radio base station according to claim 2, wherein the 3x15 radio base station transmits and receives frequencies between 806-960 MHz.
4. (Original) A 3x15 radio base station according to claim 2, wherein the 2x15 radio base station transmits and receives frequencies between 1710-1855 MHz.
5. (Original) A 3x15 radio base station according to claim 2, wherein the 3x15 radio base station transmits and receives frequencies between 2500-2690 MHz.
6. (Original) A 3x15 radio base station according to claim 2, wherein the 3x15 radio base station transmits and receives frequencies between 2.4GHz-2.5GHz.
7. (Original) A 3x15 radio base station according to claim 2, wherein the first 3x7 radio base station comprises a cabinet to protect electronic equipment from environmental exposure.
8. (Original) A 3x15 radio base station according to claim 2, wherein the second 3x7 radio base station comprises a cabinet to protect electronic equipment from environmental exposure.
9. (Original) A 3x15 radio base station according to claim 2, wherein the first 3x7 radio base station comprises a prefabricated structure.
10. (Original) A 3x15 radio base station according to claim 2, wherein the second 3x7 radio base station comprises a prefabricated structure.

11. (Currently Amended) A 3x15 radio base station for a wireless communication system, comprising:

a first 3x7 radio base station providing wireless communication to three sectors of the wireless communication system, the first 3x7 radio base station coupled to a first group of seven radios per each sector of the three sectors, the first group of seven radios transmitting and receiving frequencies in at least one range of 806-960 MHz, 1710-1855 MHz, 2500-2690 MHz, and 2.4 GHz-2.5 GHz; and

a second 3x7 radio base station coupled to the first 3x7 radio base station, the second 3x7 radio base station also providing wireless communications to the three sectors, the second 3x7 radio base station coupled to a second group of seven radios per each sector of the three sectors, the second group of seven radios transmitting and receiving frequencies in at least one range of 806-960 MHz, 1710-1855 MHz, 2500-2690 MHz, and 2.4GHz-2.5 GHz,

wherein the first 3x7 radio base station coupled to the second 3x7 radio base station creates the 3x15 radio base station utilizing 14 radios and an extra control radio for voice or data communication and one control radio for control signals, the 3x15 radio base station providing the three sectors with fifteen radios per each sector.

12. (Currently Amended) A 3x15 radio base station for a wireless communication system, comprising:

a first 3x7 radio base station and a second 3x7 radio base station, the first 3x7 radio base station and the second 3x7 radio base station each providing wireless communication to three sectors within the wireless communication system;

the first 3x7 radio base station comprising a first group of seven radios per sector, a first measuring coupler unit, and a first power splitter unit, the first measuring coupler unit for amplifying and splitting received signals, and the first power splitter unit for distributing received signals; and

the second 3x7 radio base station coupled to the first 3x7 radio base station, the second radio base station comprising a second group of seven radios per sector, a second measuring coupler unit, and second power splitter unit, the second measuring coupler unit

also for amplifying and splitting received signals, the second power splitter unit also for distributing received signals,

wherein the first 3x7 radio base station coupled to the second 3x7 radio base station creates the 3x15 radio base station utilizing 14 radios and an extra control radio for voice or data communication and one control radio for control signals, the 3x15 radio base station providing the three sectors within fifteen radios per each sector.

13. (Original) A 3x15 radio base station according to claim 12, wherein the first measuring coupler unit is coupled to the second power splitter unit.

14. (Original) A 3x15 radio base station according to claim 12, wherein the second measuring coupler unit is coupled to the first power splitter unit.

15. (Original) A 3x15 radio base station according to claim 12, wherein the first measuring coupler unit is coupled to the first power splitter unit and to the second power splitter unit.

16. (Original) A 3x15 radio base station according to claim 12, wherein the second measuring coupler unit is coupled to the second power splitter unit and to the first power splitter unit.

17. (Original) A 3x15 radio base station according to claim 12, wherein the first 3x7 radio base station further comprises a first radio frequency test loop, the first radio frequency test loop coupled to the first measuring coupler unit and to the second measuring coupler unit.

18. (Original) A 3x15 radio base station according to claim 12, wherein the second 3x7 radio base station further comprises a second radio frequency test loop, the second radio frequency test loop coupled to the second measuring coupler unit and to the first measuring coupler unit.

19. (Original) A 3x15 radio base station according to claim 12, wherein the 3x15 radio base station transmits and receives frequencies in at least one range of 806-960 MHz, 1710-1855 MHz, 2500-2690 MHz, and 2.4 GHz-2.5 GHz.

20. (Currently Amended) A 3x15 radio base station for a wireless communication system, comprising:

a first 3x7 radio base station and a second 3x7 radio base station, the first 3x7 radio base and the second 3x7 radio base station each providing wireless communication to three sectors within the wireless communication system;

the first 3x7 radio base station comprising a first group of seven radios per sector, a first measuring coupler unit, a first power splitter unit, and first radio frequency test loop, the first measuring coupler unit for amplifying and splitting received signals, the first power splitter unit for distributing received signals, and the first radio frequency test loop for calibration and test of the first 3x7 radio base station;

the second radio base station comprising a second group of seven radios per sector, a second measuring coupler unit, a second power splitter unit, and a second radio frequency test loop, the second measuring coupler unit also for amplifying and splitting received signals, the second power splitter unit also for distributing received signals, and the second radio frequency test loop for calibration and test of the second 3x7 radio base station;

the first measuring coupler unit coupled to the first power splitter unit and to the second power splitter unit, the first radio frequency test loop coupled to the first measuring coupler unit and to the second measuring coupler unit; and

the second measuring coupler unit coupled to the second power splitter unit and to the first power splitter unit, the second radio frequency test loop coupled to the second measuring coupler unit and to the first measuring coupler unit,

wherein the first 3x7 radio base station couples to the second 3x7 radio base station to create the 3x15 radio base station utilizing 14 radios and an extra control radio for voice or data communication and one control radio for control signals, the 3x15 radio base station providing the three sectors with fifteen radios per each sector, the 3x15 radio

base station transmitting and receiving frequencies in at least one range of 806-960 MHz, 1710-1855 MHz, 2500-2690 MHz, and 2.4 GHz-2.5 GHz.

21. (Previously Presented) The extra capacity radio base station of claim 1 wherein:
said first radio base station is coupled to said second radio base station by cabling connecting said first radio base station to said second radio base station.

22. (Previously Presented) The extra capacity radio base station of claim 21 wherein:
said first radio base station is housed in a first cabinet, said second radio base station is housed in a second cabinet, and a conduit between said first cabinet and said second cabinet contains said cabling.

23. (Previously Presented) The extra capacity radio base station of claim 1 wherein:
said first radio base station and said second radio base station are housed within a common structure.

24. (Previously Presented) The 3x15 radio base station of claim 2 wherein:
said first 3x7 radio base station is coupled to said second 3x7 radio base station by cabling connecting said first 3x7 radio base station to said second 3x7 radio base station.

25. (Previously Presented) The 3x15 radio base station of claim 24 wherein:
said first 3x7 radio base station is housed in a first cabinet, said second 3x7 radio base station is housed in a second cabinet, and a conduit between said first cabinet and said second cabinet contains said cabling.

26. (Previously Presented) The 3x15 radio base station of claim 2 wherein:
said first 3x7 radio base station and said second 3x7 radio base station are housed within a common structure.